

Report No.: 01

Test Time: 2015/11/30 16:37

Luminaire Property

Luminaire Manufacturer: Acolyte
Luminaire Category: RB245.5RGBW-Red
Number of Lamps: 1
Luminous Width (mm): 12
Voltage: 24.0 V
Power: 2.70 W

Luminaire Description: RB245.5RGBW-Red
Luminous Length (mm): 500
Luminous Height (mm): 5
Current: 0.113 A
Power Factor: 1.000

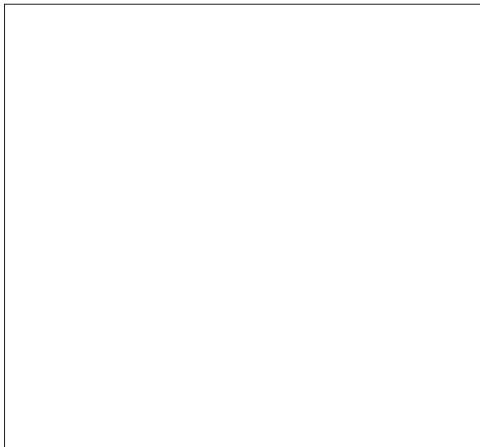
Photometric Results

CIE Class: Direct
Measurement Flux: 76.4 lm
Downward Ratio: 99%
Horizontal Diffuse Angle(50%): H124.2
Vertical Diffuse Angle(50%): V123.6
Luminaire Efficacy Rating (LER): 28
Max. Intensity: 23.63 cd

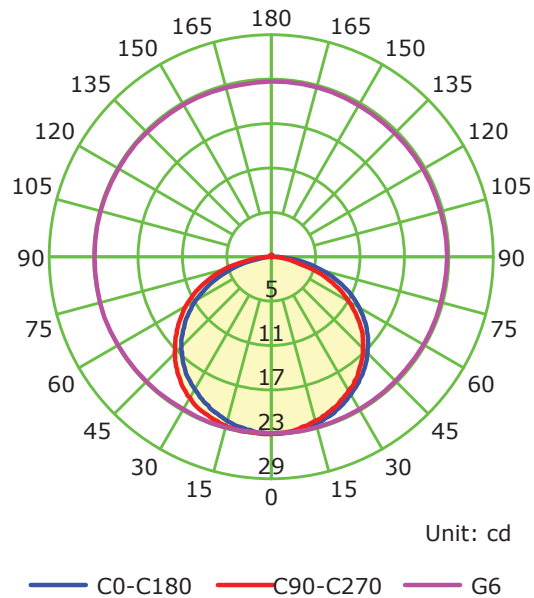
Total Rated Lamp Lumens: 76.4 lm
Efficiency: 100%
Upward Ratio: 1%

Central Intensity: 23.53 cd
Pos of Max. Intensity: H290 V6

Picture Of Luminaire



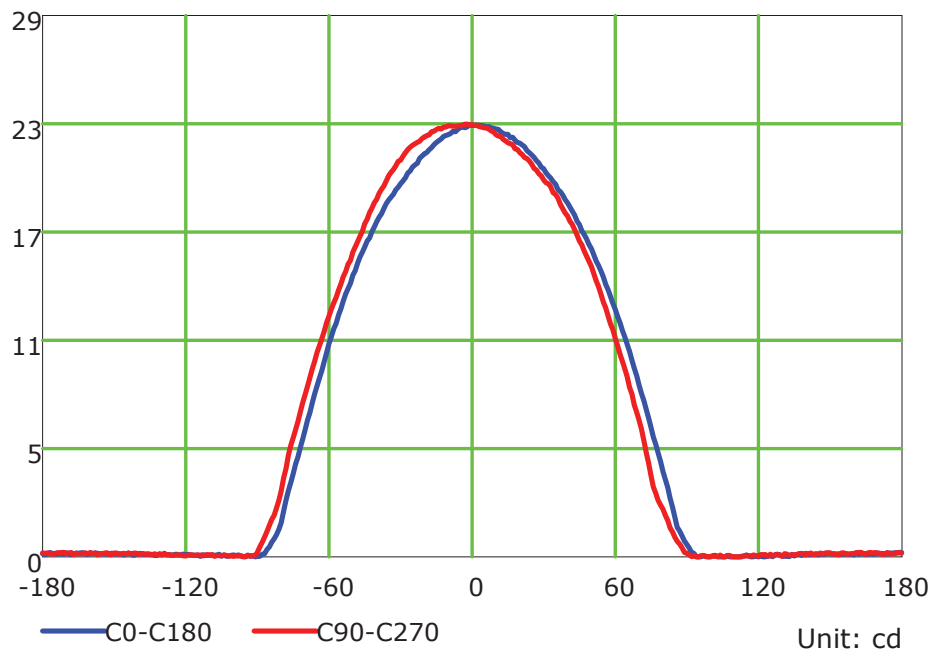
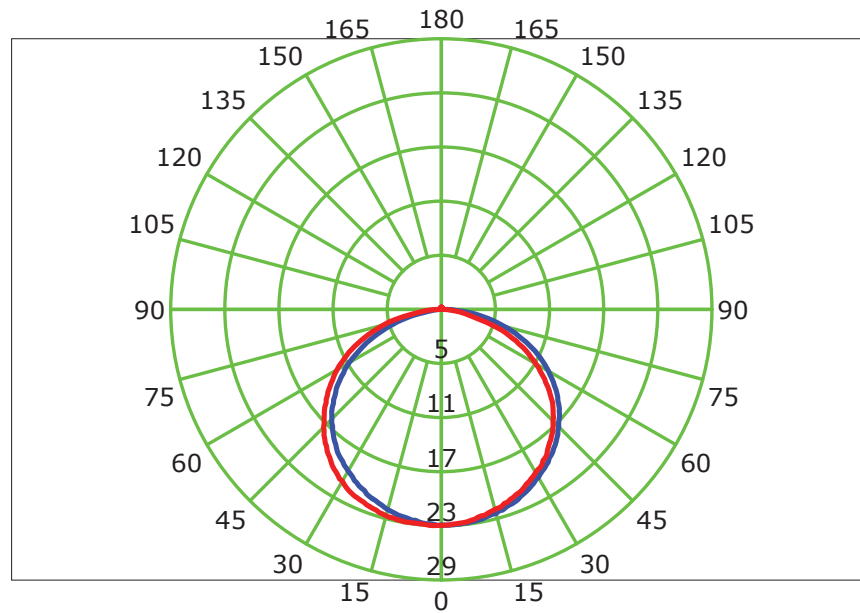
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 10.0
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 24°C
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Luminous Intensity Distribution Curve



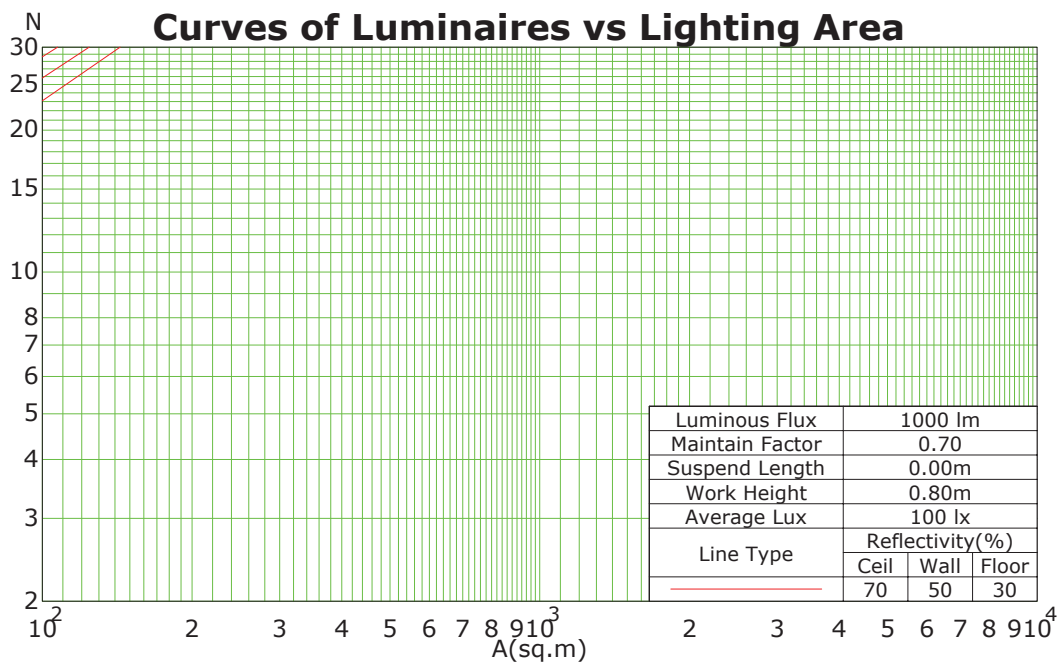
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Coefficients Of Utilization - Zonal Cavity Method

RC	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.3	0.3	0.3	0.1	0.1	0.1	0
RW	0.7	0.5	0.3	0.1	0.7	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0
RCR	RF = 0.2																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	108	103	99	94	105	101	97	93	96	93	90	92	89	87	88	86	84	82
2	98	89	82	76	95	87	81	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	63	86	76	68	62	73	66	61	70	64	59	67	62	58	56
4	81	69	59	53	79	67	59	52	64	57	51	62	56	50	60	54	50	47
5	74	61	52	45	72	60	51	45	58	50	44	55	49	43	53	48	43	41
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	33	27	39	32	27	38	31	27	37	31	26	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	34	28	24	22

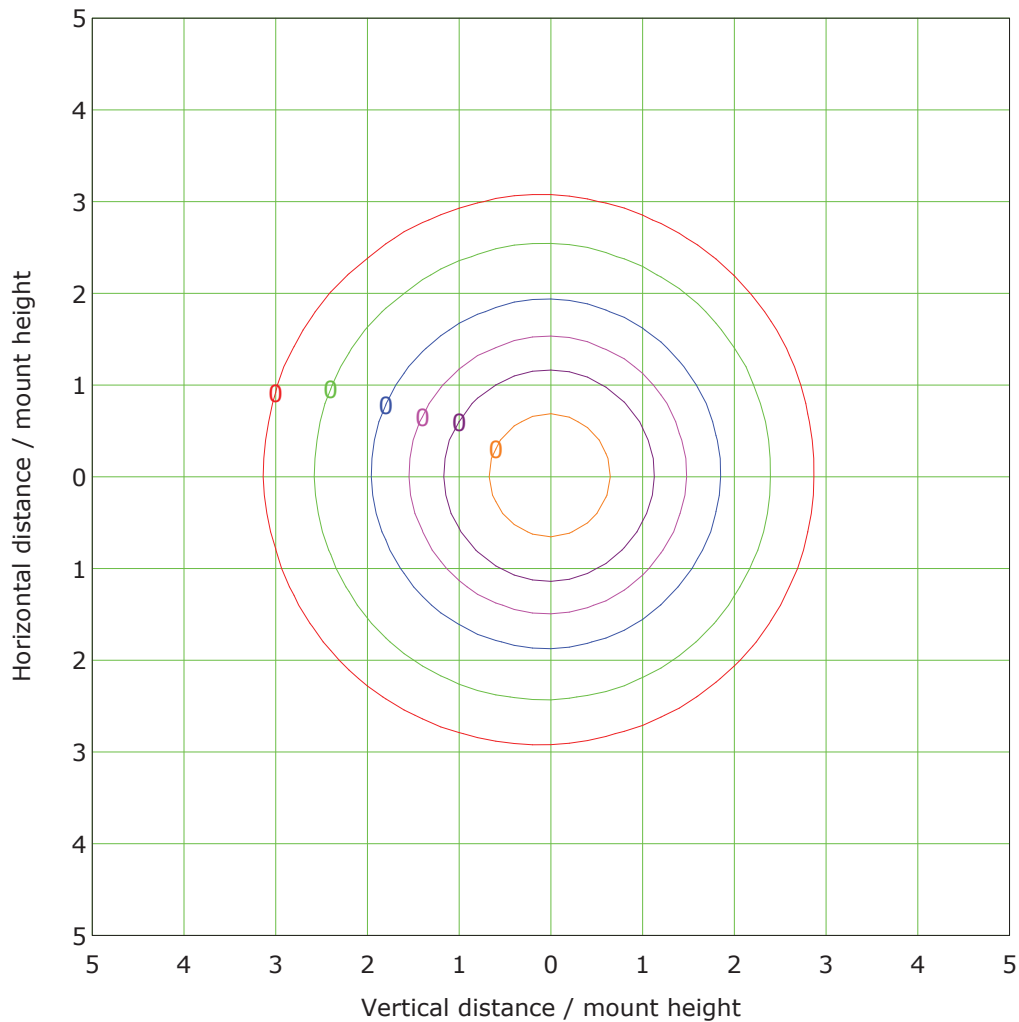
Spacing Criteria (0-180): 1.31
Spacing Criteria (90-270): 1.34
Spacing Criteria (Diagonal): 1.45



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IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 0.2 lx

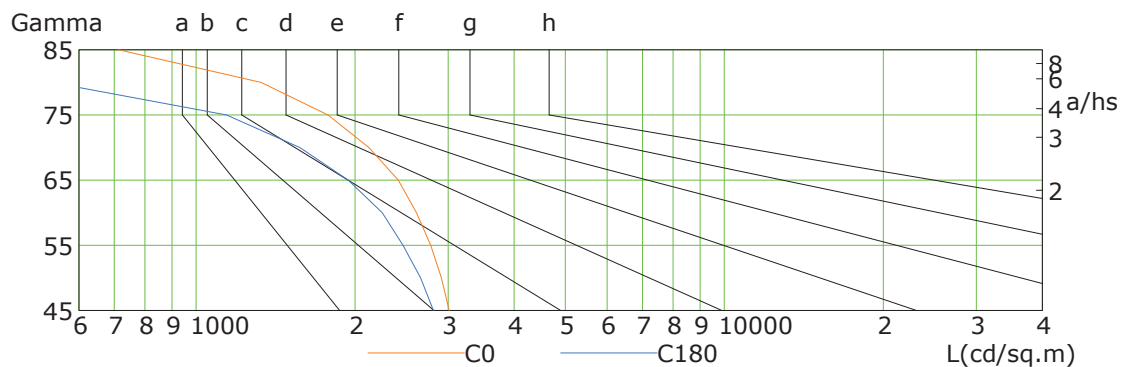
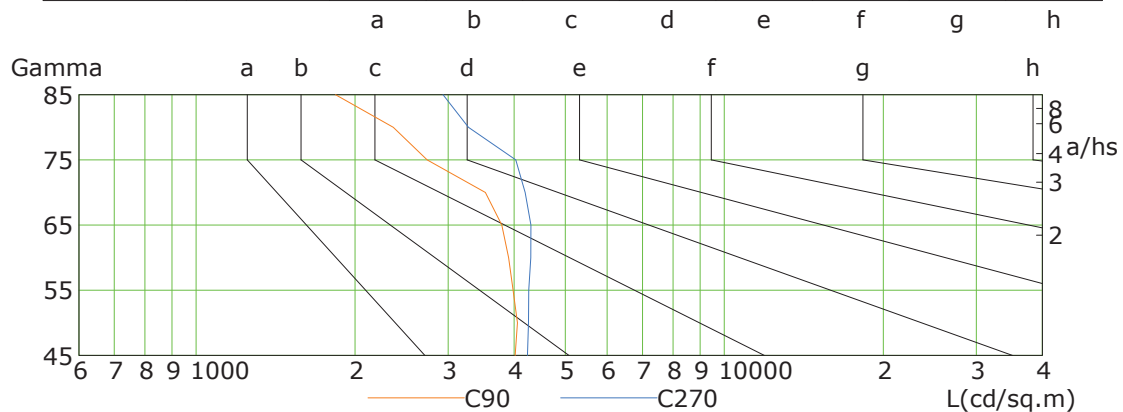
(1%): 0.0 lx	(2%): 0.0 lx
(5%): 0.0 lx	(10%): 0.0 lx
(20%): 0.0 lx	(50%): 0.1 lx
(100%): 0.2 lx	

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Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300

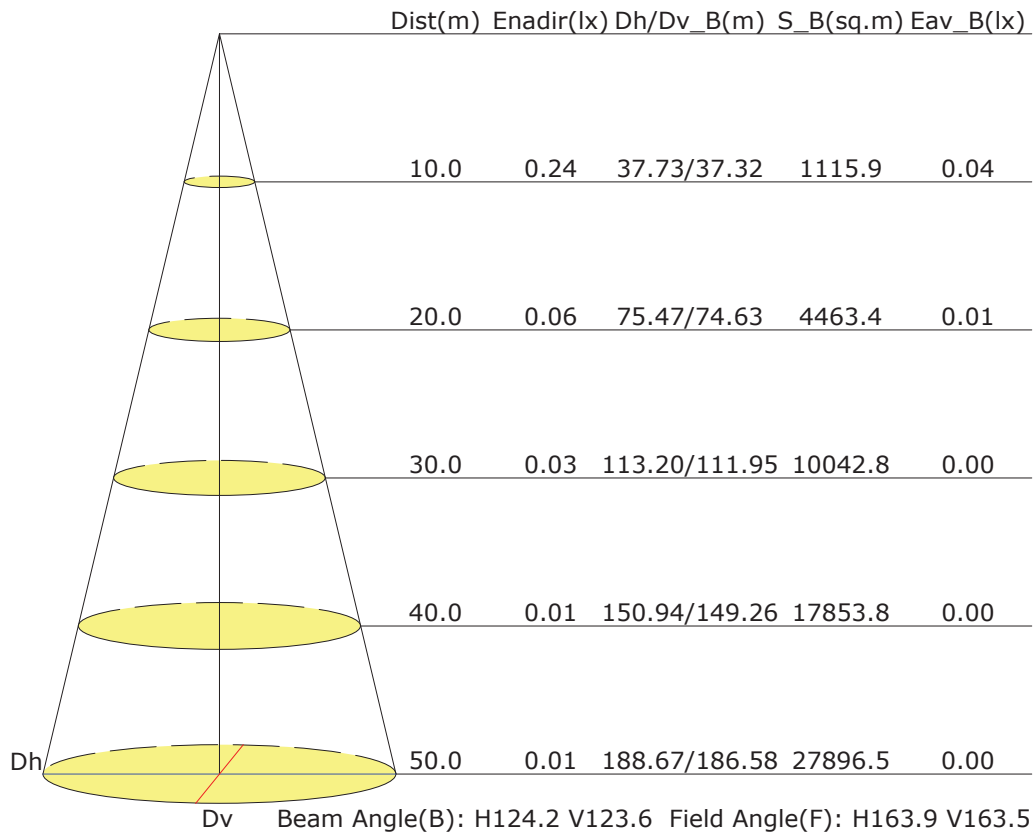


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	3015	2912	2782	2614	2414	2124	1777	1327	713
C90	4019	4059	3982	3906	3791	3529	2738	2362	1836
C180	2813	2661	2465	2252	1941	1572	1142	534	179
C270	4240	4259	4263	4302	4305	4197	4029	3279	2935

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Humidity: 60%
Inspector:

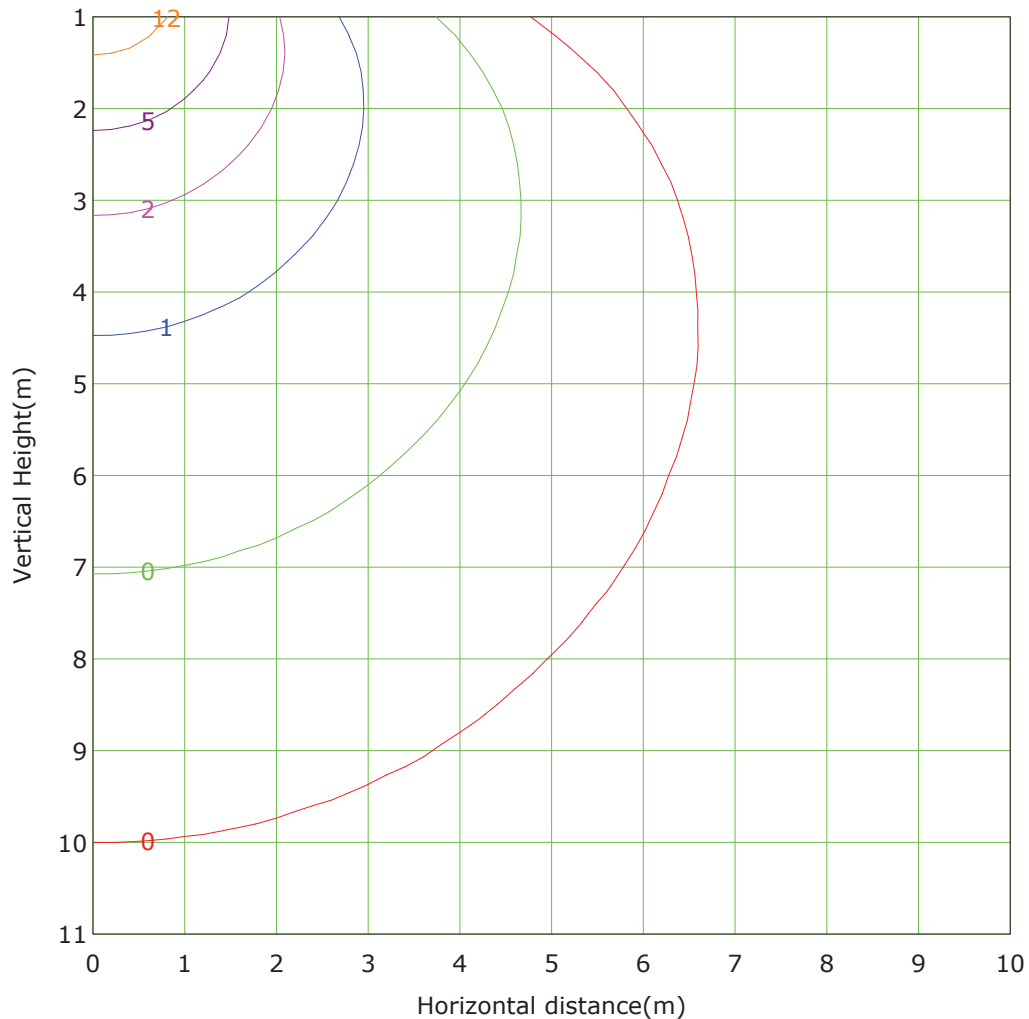
Illuminance at a Distance



C Plane (°):0.0-360.0: 10.0
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 24°C
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 23.5 lx
 (1%): 0.2 lx (2%): 0.5 lx
 (5%): 1.2 lx (10%): 2.4 lx
 (20%): 4.7 lx (50%): 11.8 lx
 (100%): 23.5 lx

C Plane (°):0.0-360.0: 10.0
 Test Lab: ACOLYTE
 Test Type: TYPE C
 Temperature: 24°C
 Operator:

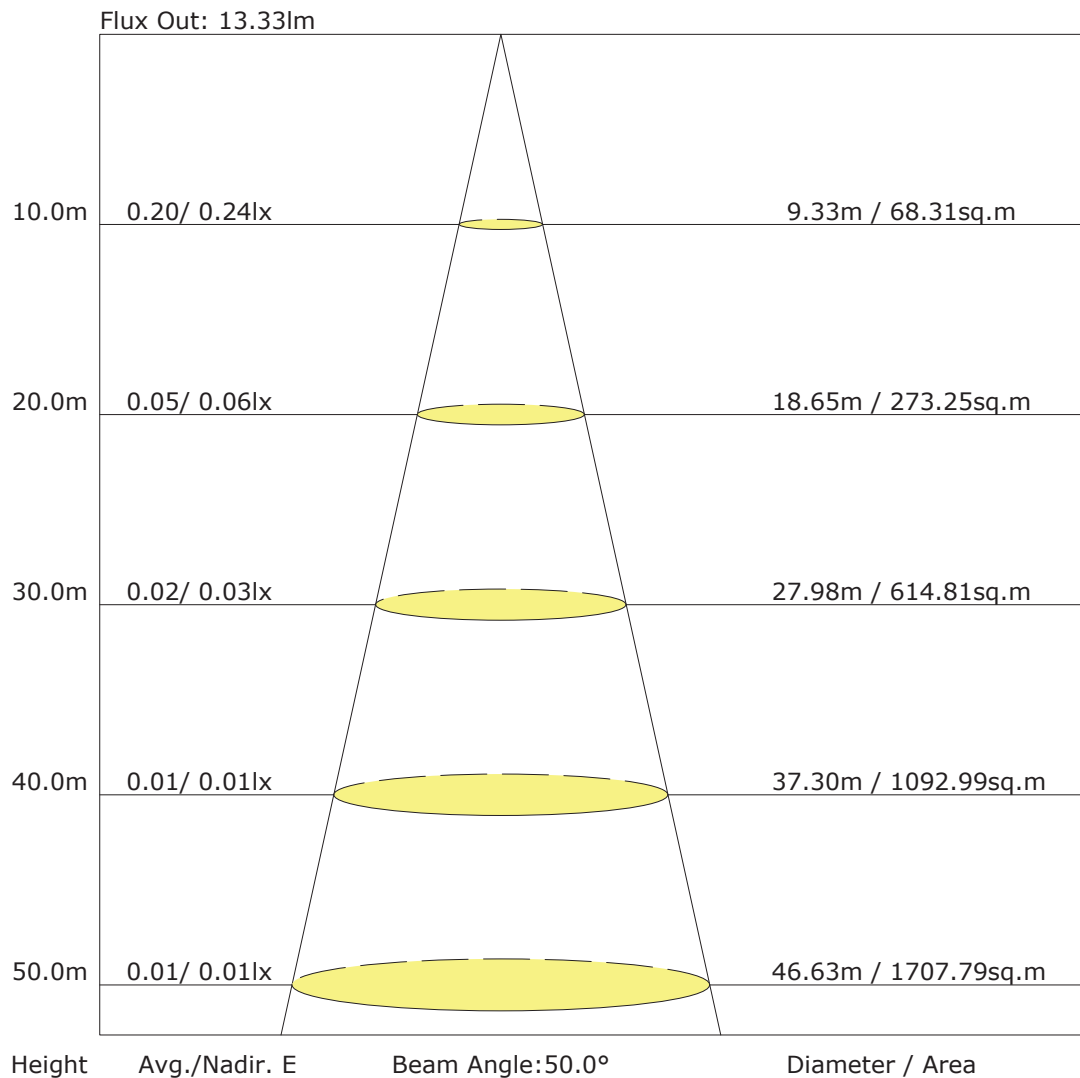
Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 9.028 m
 Humidity: 60%
 Inspector:

Area Flux Table

[illegible]

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

The Average Illuminance Effective Figure



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Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

UGR Table

Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	26.0	27.6	26.3	27.9	28.3	24.3	25.9	24.6	26.3	26.6
3H	28.1	29.6	28.5	29.9	30.3	25.8	27.3	26.2	27.6	28.0
4H	29.0	30.4	29.4	30.8	31.2	26.2	27.6	26.6	28.0	28.3
6H	29.7	31.0	30.1	31.4	31.8	26.4	27.7	26.8	28.1	28.5
8H	29.9	31.2	30.4	31.6	32.0	26.4	27.7	26.8	28.1	28.5
12H	30.1	31.3	30.6	31.7	32.2	26.4	27.6	26.8	28.0	28.5
X=4H Y=2H	26.4	27.9	26.9	28.2	28.6	24.9	26.4	25.4	26.7	27.1
3H	28.8	30.0	29.2	30.4	30.8	26.6	27.8	27.1	28.3	28.7
4H	29.8	30.9	30.2	31.3	31.7	27.1	28.2	27.6	28.7	29.1
6H	30.6	31.6	31.1	32.0	32.5	27.4	28.3	27.9	28.8	29.3
8H	30.9	31.8	31.4	32.3	32.8	27.5	28.4	27.9	28.8	29.3
12H	31.1	31.9	31.6	32.4	32.9	27.5	28.3	28.0	28.8	29.3
X=8H Y=4H	30.0	30.9	30.4	31.3	31.8	27.5	28.4	27.9	28.8	29.3
6H	30.9	31.6	31.4	32.2	32.6	27.8	28.5	28.3	29.0	29.5
8H	31.3	31.9	31.8	32.5	33.0	27.9	28.5	28.4	29.1	29.6
12H	31.6	32.2	32.1	32.7	33.2	27.9	28.5	28.5	29.0	29.6
X=12H Y=4H	30.0	30.8	30.5	31.3	31.8	27.5	28.3	28.0	28.8	29.3
6H	30.9	31.6	31.5	32.1	32.6	27.8	28.5	28.4	29.0	29.5
8H	31.3	31.9	31.8	32.4	33.0	28.0	28.6	28.5	29.1	29.6

Calculate in accordance with CIE 190:2010

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